

## **MAASAI MARA UNIVERSITY**

### **2018/2019ACADEMIC YEAR**

# SECOND SEMESTER EXAMINATION FOR THE FIRST YEAR SECOND SEMESTER BACHELOR OF SCIENCE IN INFORMATION SCIENCES

COURSE CODE: INS 1204
COURSE TITLE: PROCEDURAL PROGRAMMING

DATE: 26<sup>TH</sup> APRIL 2019 TIME: 8.30-10.30 AM

**INSTRUCTIONS:** 

SECTION A IS COMPULSORY ATTEMPT TWO QUESTIONS IN SECTION B

### QUESTION ONE (30 MARKS)

- a. Define the following terms as used in programming (4 marks)
  - i. Linker
  - ii. Compiler
  - iii. Interpreter
  - iv. Assembler
- b. Write a program to add all integers from 1 to 100 (6 marks)
- c. Write a program to find gross salary of an employee (5 marks)
- d. Write a program to find the greatest number in 3 numbers (5 marks)

#### **QUESTION TWO (20 MARKS)**

a) What is the output of the following?

(2 marks)

(5 marks)

```
for (i=0;i<4;i++)
{ for (j=2;j<5;j++)
    {if (j==2)
    break;
    if (i==1)
    continue;
    printf("i=%d j=%d",I,j);
    }
}</pre>
```

b) Write a program that uses loops to produce the following:

2 4 6 8 10

3 6 9 12 15

4 8 12 16 20

5 10 15 20 25

c) Write a program that uses an if statement with logical OR to validate the users input to be in the range 1-10 (5 marks)

	Define an interpreter and explain the difference between nterpreter.	a compiler and an (4 marks)
a) l	Jsing qualifiers write a program to show the sizeof  i. Short int  ii. Int	(
	iii. Long int	(4 marks)
QUEST	ON THREE (	(20 MARKS)
ć	write a program to print the following stars Sequence *	(5 marks)
	**	
	***	
	****	
1	b. Write a program to print Fibonacci series up to 100	(5 marks)
	<ul><li>Write a Program to find factorial of a number</li><li>Define an operator and using examples explain the following</li></ul>	( 5 marks) ng operators. ( 5 marks)
i.	Bitwise operator	
ii.	Comma operator	
iii.	Logical operator	
iv.	Relational operator	
QUEST	ON FOUR (20 MARKS)	
	a. Write a program to use bitwise AND operator between th	e two integers. ( 5 marks)
	<ul><li>b. Program to display series and find sum of 1+3+5++n.</li><li>c. Write a program to display the first 10 multiples of 5 on a</li></ul>	( 5 marks) a single line
		(5 marks)
//END	d. Program to show sum of 10 elements of array & show the	average ( 5 marks)